

Translation

PATENT COOPERATION TREATY

PCT/DE2003/004151

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

10/541956

Applicant's or agent's file reference 46425WO/NZ		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/004151	International filing date (day/month/year) 16 December 2003 (16.12.2003)	Priority date (day/month/year) 09 January 2003 (09.01.2003)	
International Patent Classification (IPC) or national classification and IPC G02F 1/1362			
Applicant POLYIC GMBH & CO. KG			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 3 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 04 August 2004 (04.08.2004)	Date of completion of this report 25 May 2005 (25.05.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/004151

I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

- ☐ the international application as originally filed.
- ☒ the description, pages 1-8, as originally filed,
 pages _____, filed with the demand,
 pages _____, filed with the letter of _____,
 pages _____, filed with the letter of _____.
- ☒ the claims, Nos. _____, as originally filed,
 Nos. _____, as amended under Article 19,
 Nos. _____, filed with the demand,
 Nos. 1-11, filed with the letter of 06 May 2005 (06.05.2005),
 Nos. _____, filed with the letter of _____.
- ☒ the drawings, sheets/fig 1/3-3/3, as originally filed,
 sheets/fig _____, filed with the demand,
 sheets/fig _____, filed with the letter of _____,
 sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1, 4-11	YES
	Claims	2, 3	NO
Inventive step (IS)	Claims	1, 4-11	YES
	Claims	2, 3	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: DE 199 35 527 A (GIESECKE & DEVRIENT GMBH) 8 February 2001 (2001-02-08)

D2: DE 33 38 597 A (GAO GES AUTOMATION ORG) 2 May 1985 (1985-05-02)

D1, which is considered the closest prior art, discloses a substrate for an electronic device with organic components from which the subject matter of claim 1 differs in that an electrode layer of an organic component is also a printed conductor layer of a baseplate for a conventional semiconductor element.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of producing a printed circuit board in which organic components are integrated and which is as easy as possible to produce.

The solution to this problem proposed in claim 1 of the present application involves an inventive step for the following reasons (PCT Article 33(3)): none of the present

documents suggests doing without a "conventional" printed conductor and using an already present electrode layer instead.

Claims 4-11 are dependent on claim 1 and therefore likewise meet the PCT requirements of novelty and inventive step.

Claims 2 and 3 do not contain the characterising feature of claim 1 (use of the electrode layer as a printed conductor layer). The subject matter of the claims is already disclosed in D1, and the claims are therefore not novel (PCT Article 33(2)). Furthermore, these claims do not meet the requirement of unity of invention either.

Further observations:

- Claim 1 is not correctly delimited over the prior art.
- The claims lack reference signs.
- The expression "good value" in claim 7 is not a technical feature.